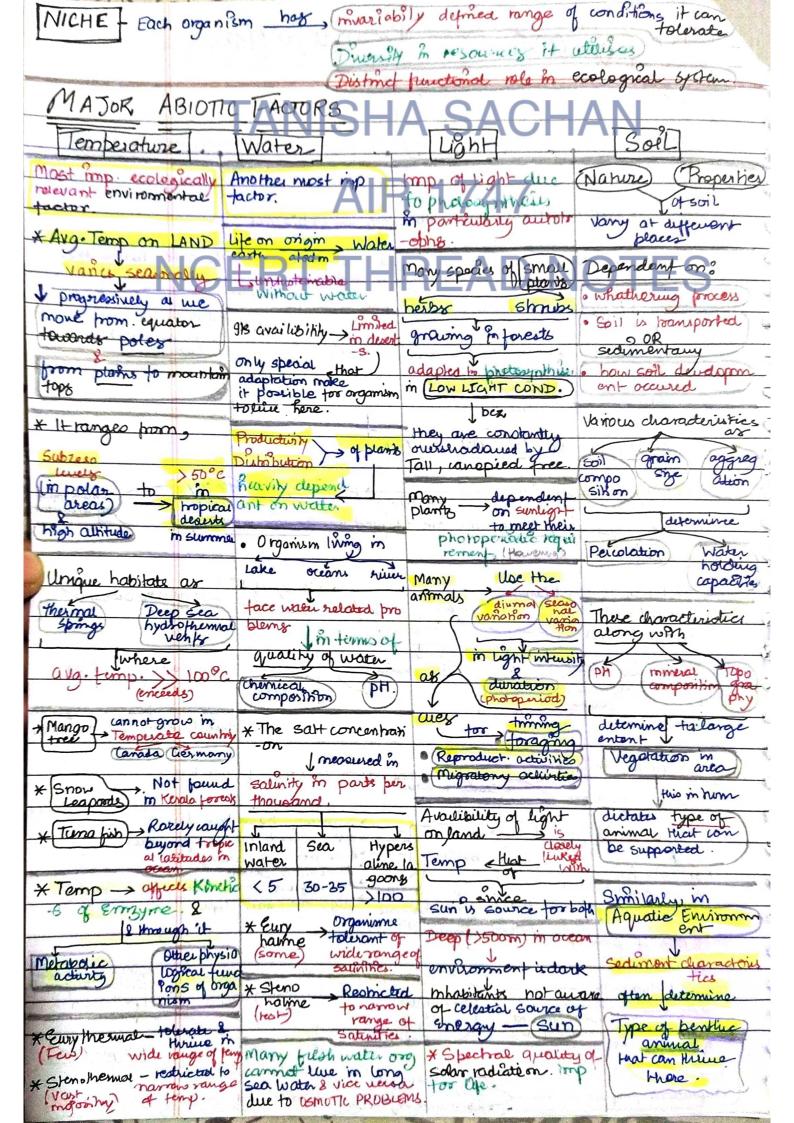
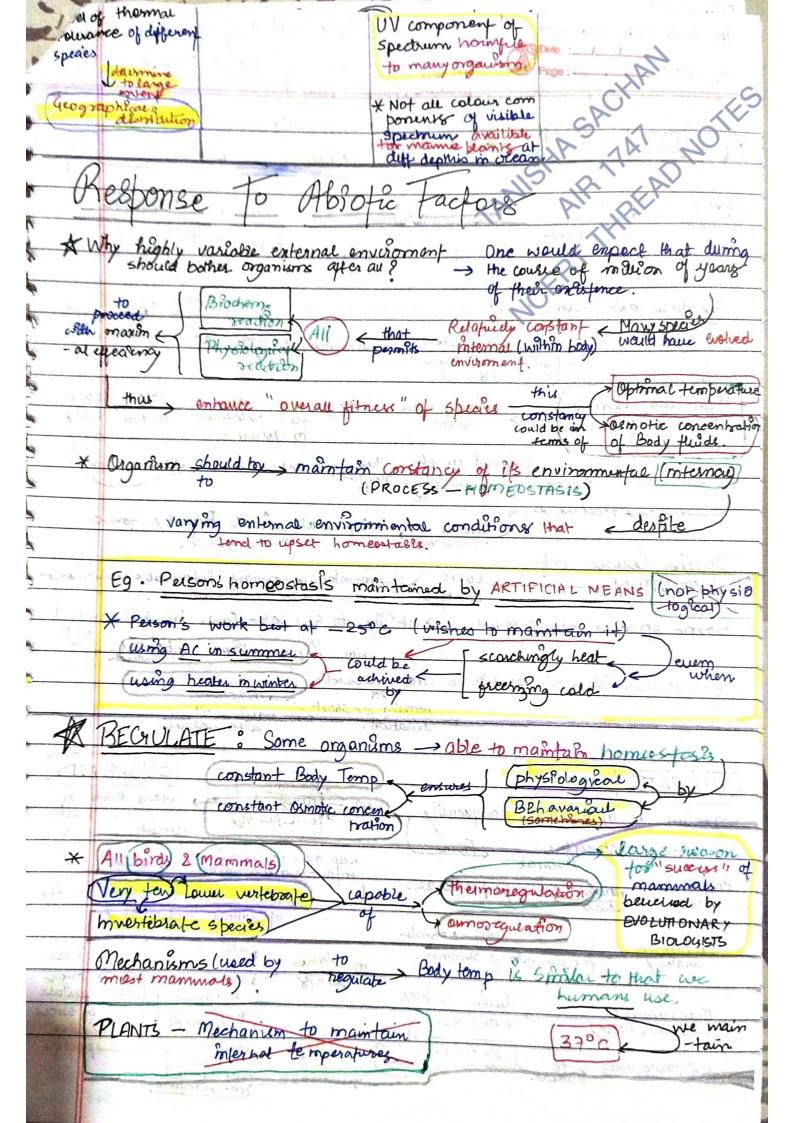
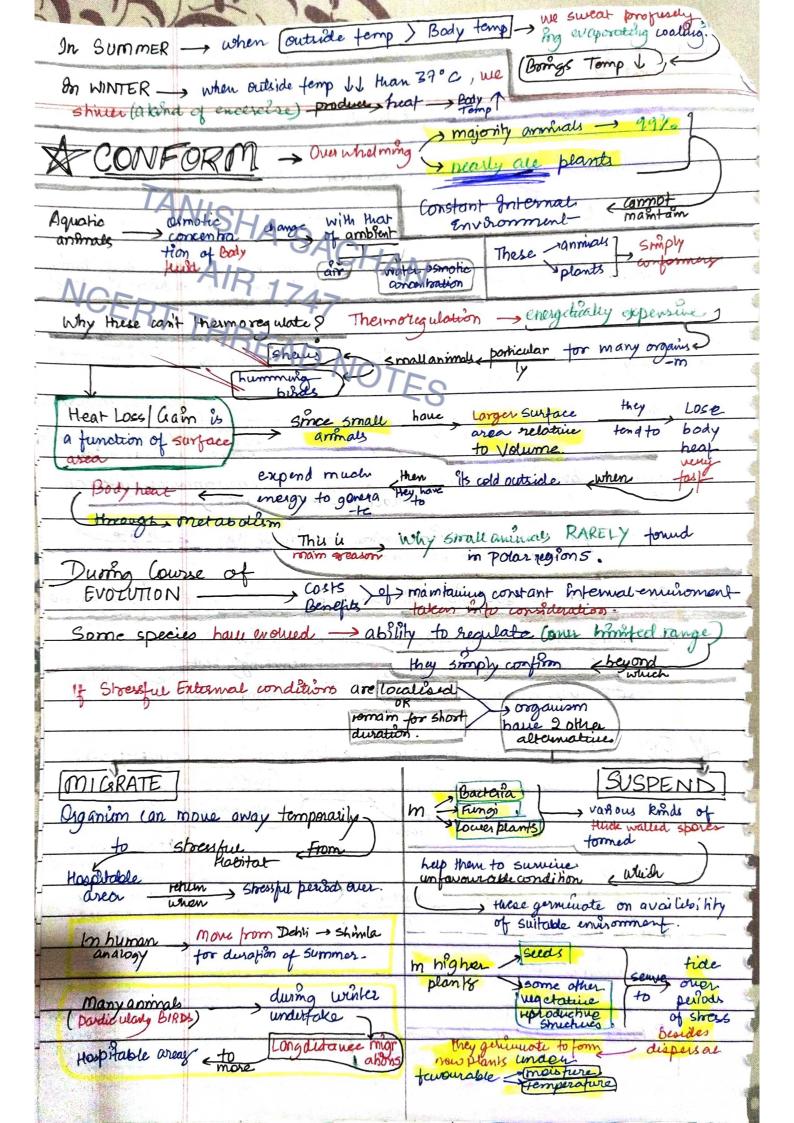
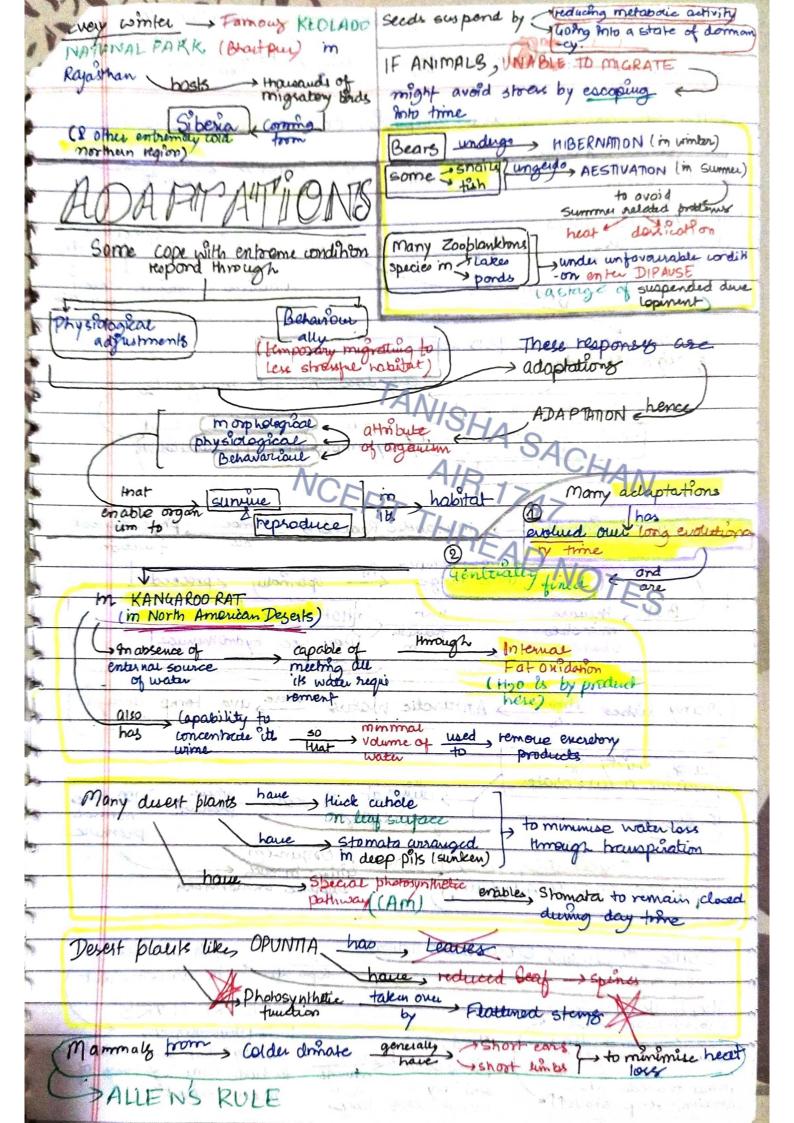
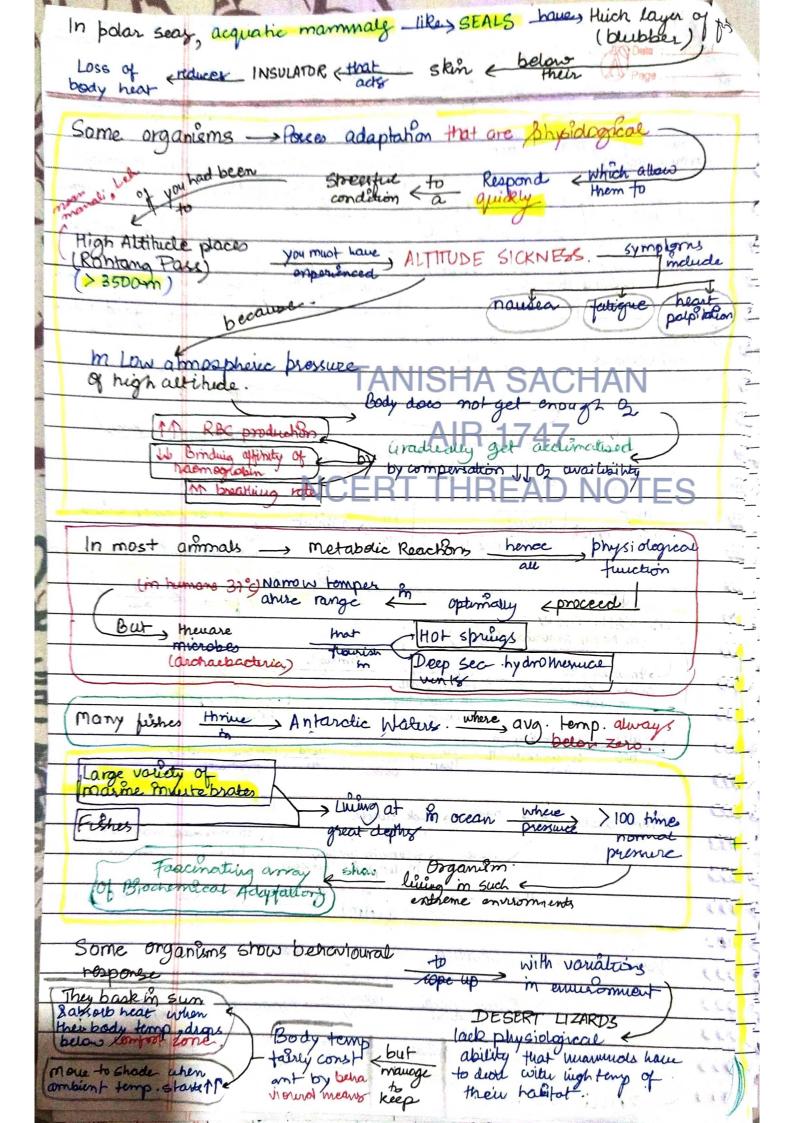
10	oganisms & Ropulations
	Living world fascinatingly dwerse amazingly complex.
	Various levels of Biological organisation -> macromolecules -
	Population (majordual organisms tossues (
5	> communities > ecosystem > biomes
3	Why does bulbulong? -> Birds need to communicate with mate during the
, ×	ECOLOGY subject which studies interaction b/w organisms
-	concurred at to cognitions we study this physical factoric
	Biological Communities NCED AIR & ACH
Na Shialas	Organism & Its Environmen L THREAD
100 00	The state of the s
*	Ecology at aganismic level. 1/2 physiological Ecology which ties
340	no val control "Diff organisms are adapted to environment" to understor
Kibi	ion.
X	Around sun causes Annual in duration of T in Seasons
6	Tilt of its anis
B SOUTH	Armual variation + These variations account Formation of major
1	Includes both
A 100	desert Rainest Turndran
X	Regional variation within each bitum Wide variation of habitats
7 - 70	abon of
*	house bablate Deep hands meghalaya forest
77	Tarrental streams
Promote.	habitat to e of ma hermal rugh mountain tops
)	meropes.
*	Key elements - Temperature Physico-chemicae Biolio components
i ch	anation in sphysical wid. I hight ento
96	(competitors)
aday	parisms through natural selection evolve to characterise of organisms completely

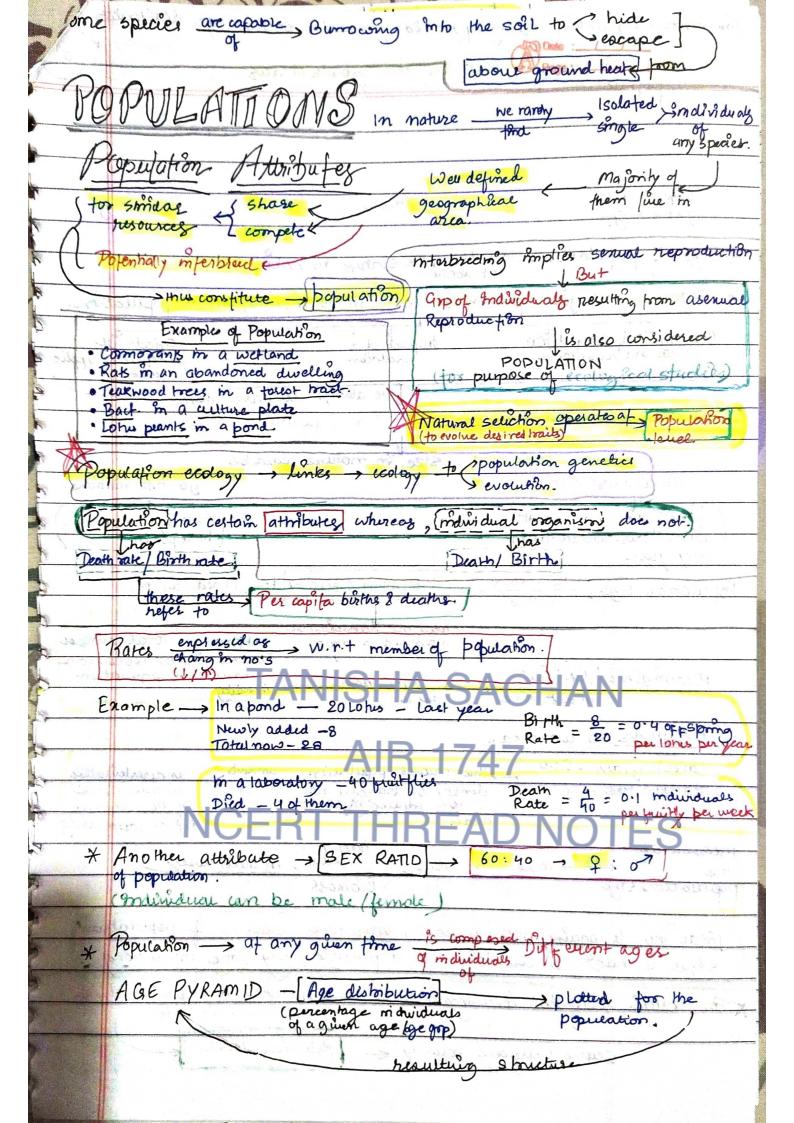


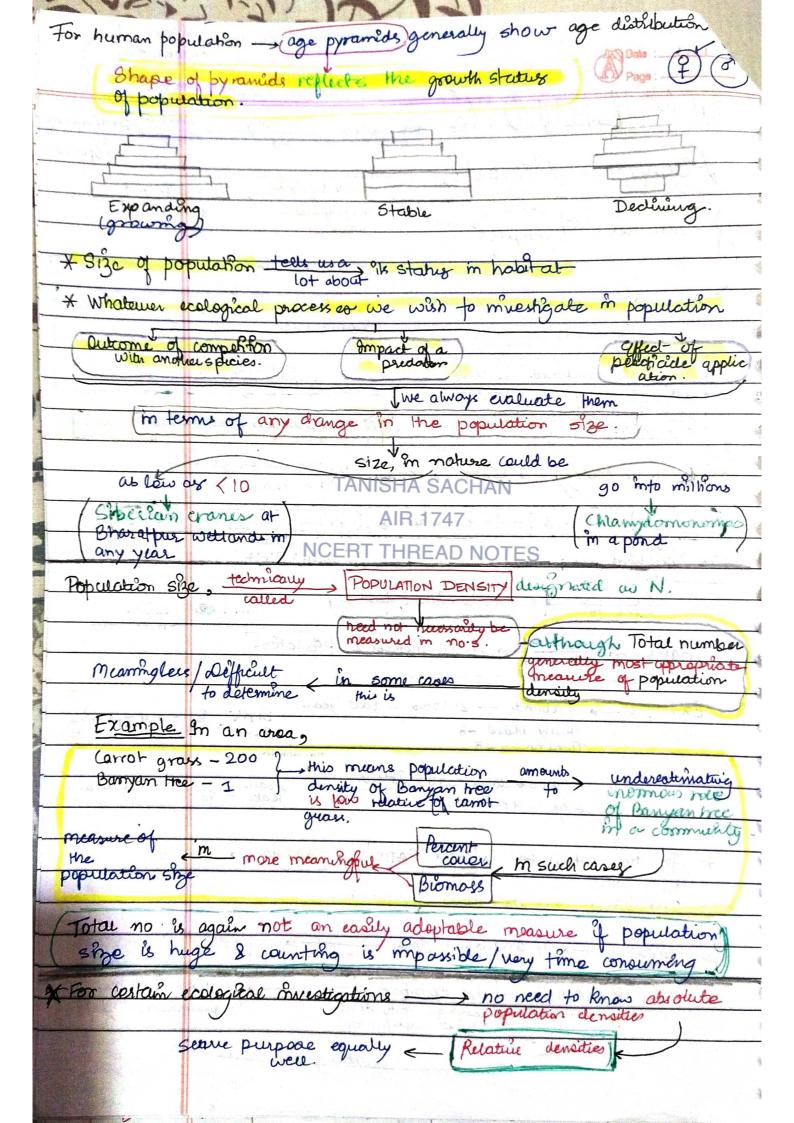


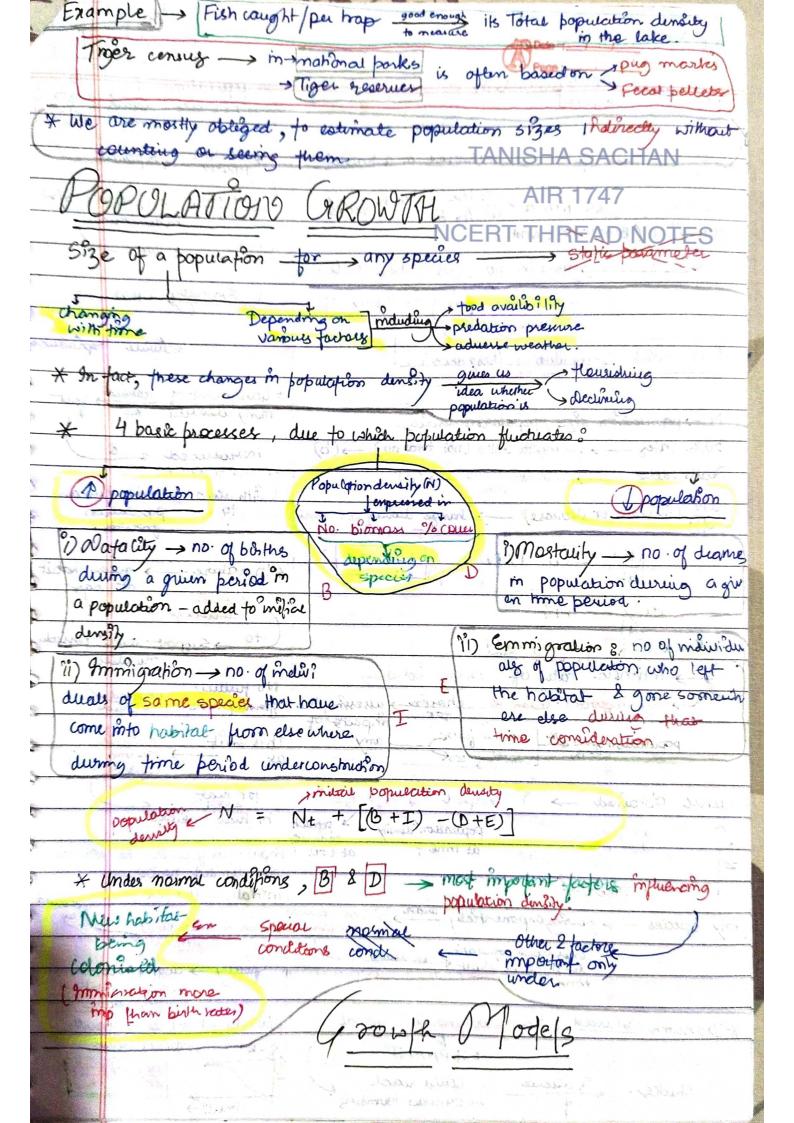


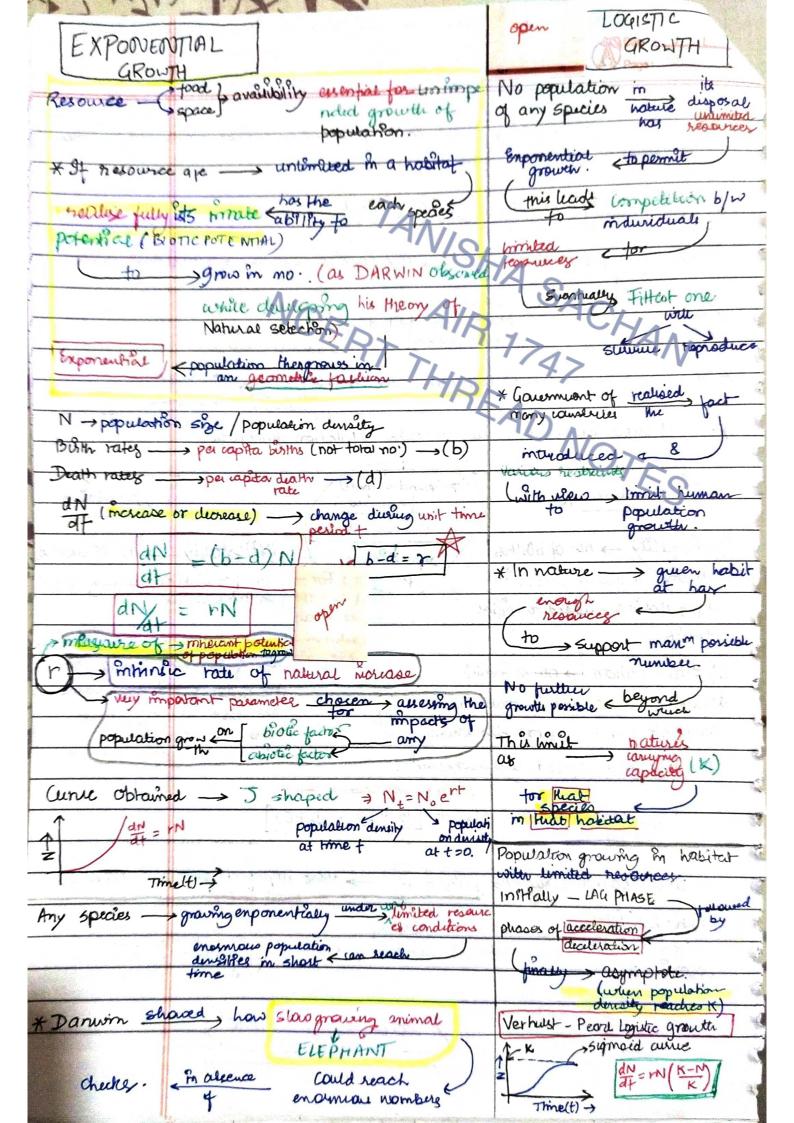












Value of r: For—)
Norway Rat— 0.015 TANISHA SACHAN
AIR 1747
Fleur Beutle— 0.12 NCERT THREAD NOTES
Human population— 0.0205
INDIA (1981)

Since resources for growth

finite

TANISHA SACHAN AMIMALS

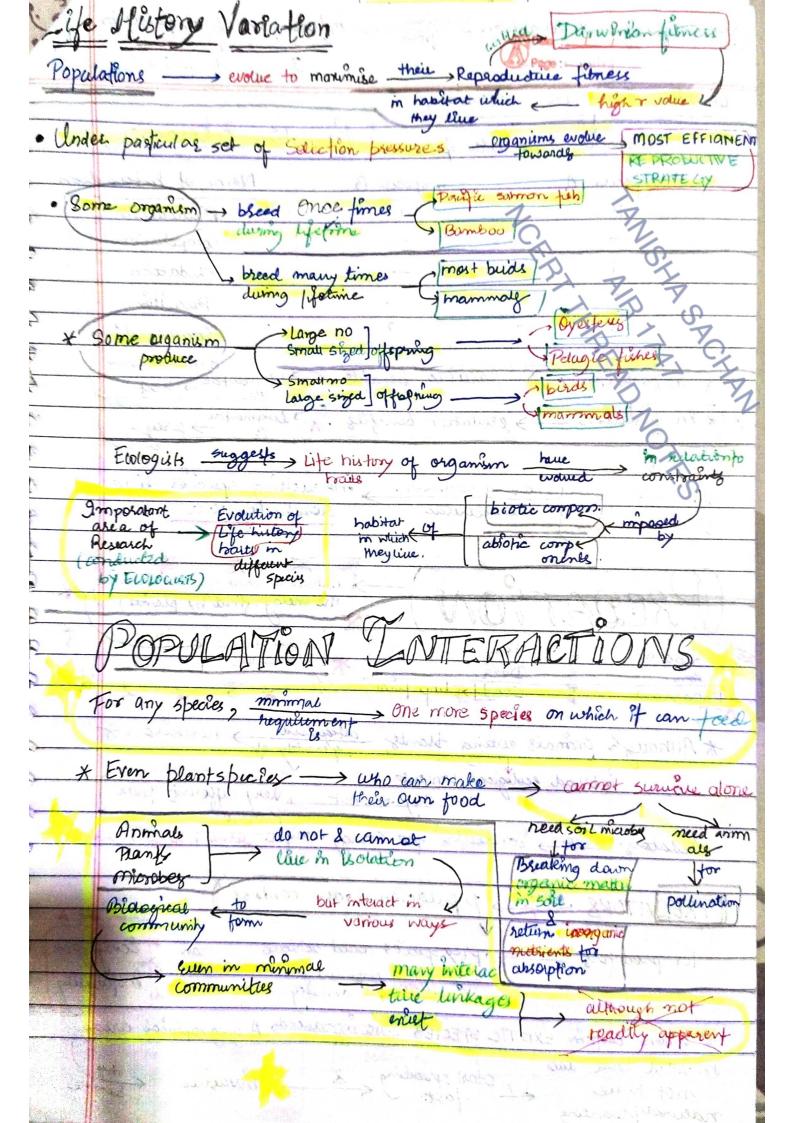
AIR 1747

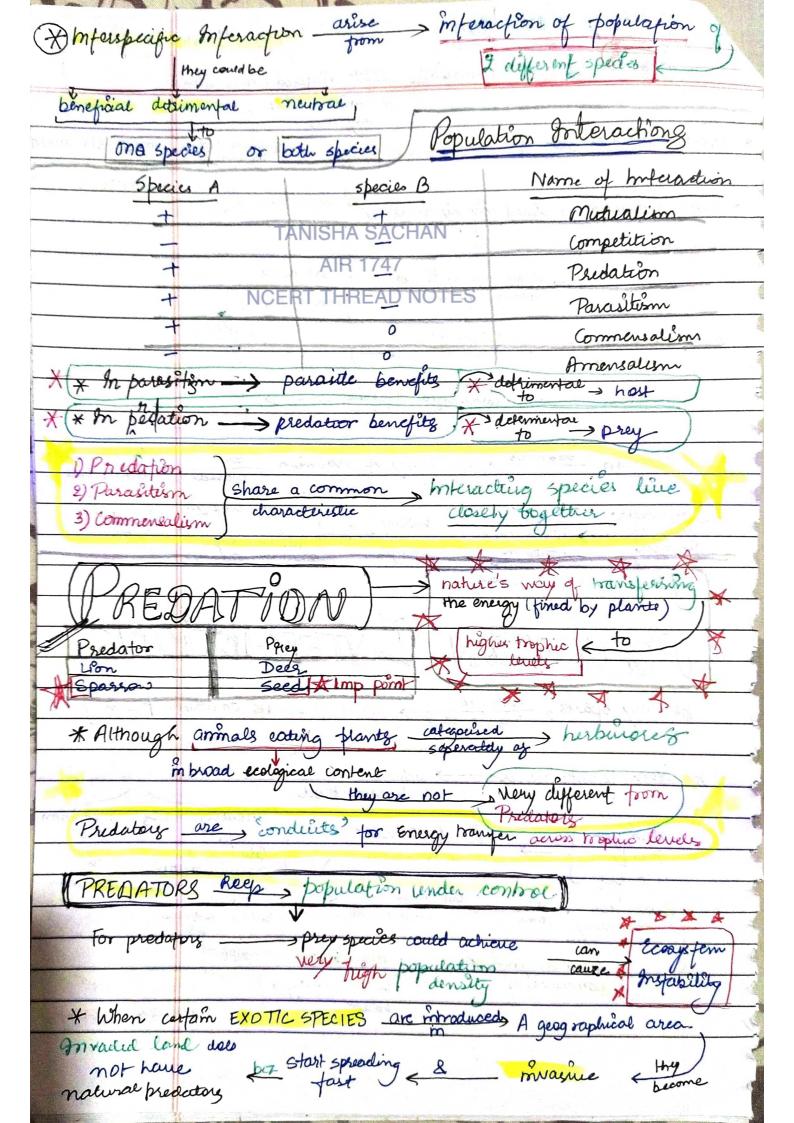
NOTE THREAD NOTES.

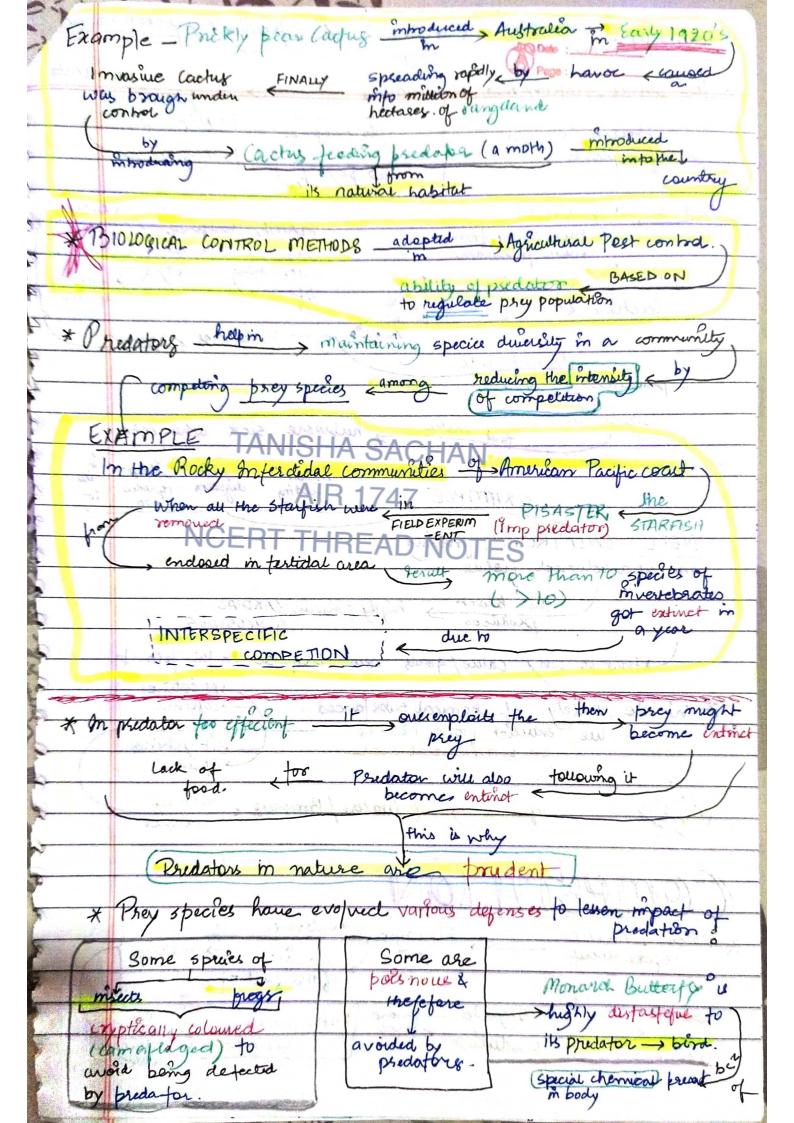
Sooner or laristic

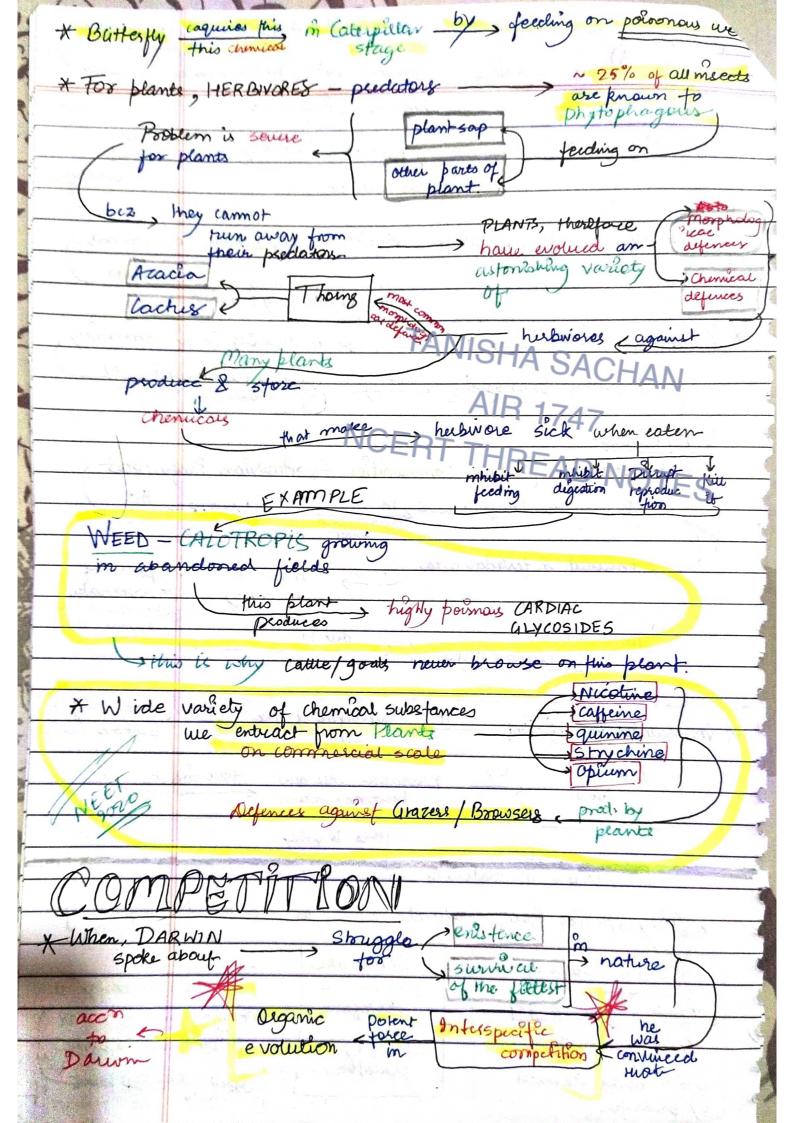
Growth model

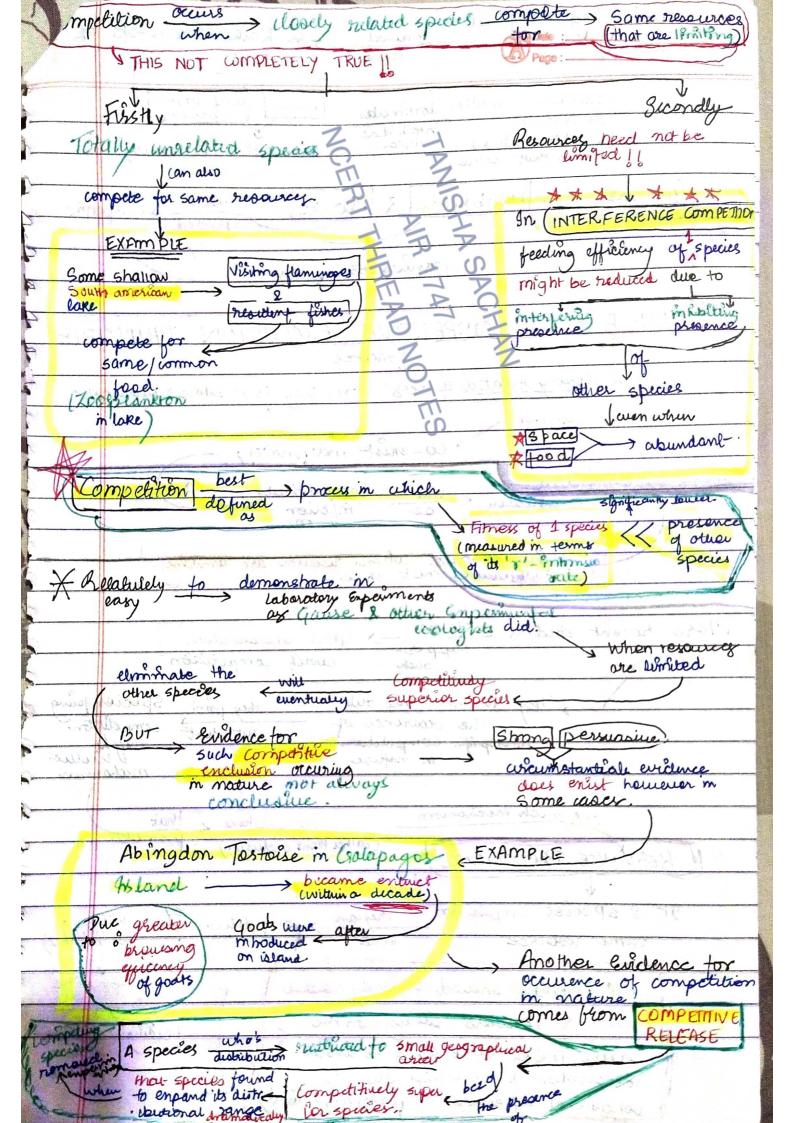
One

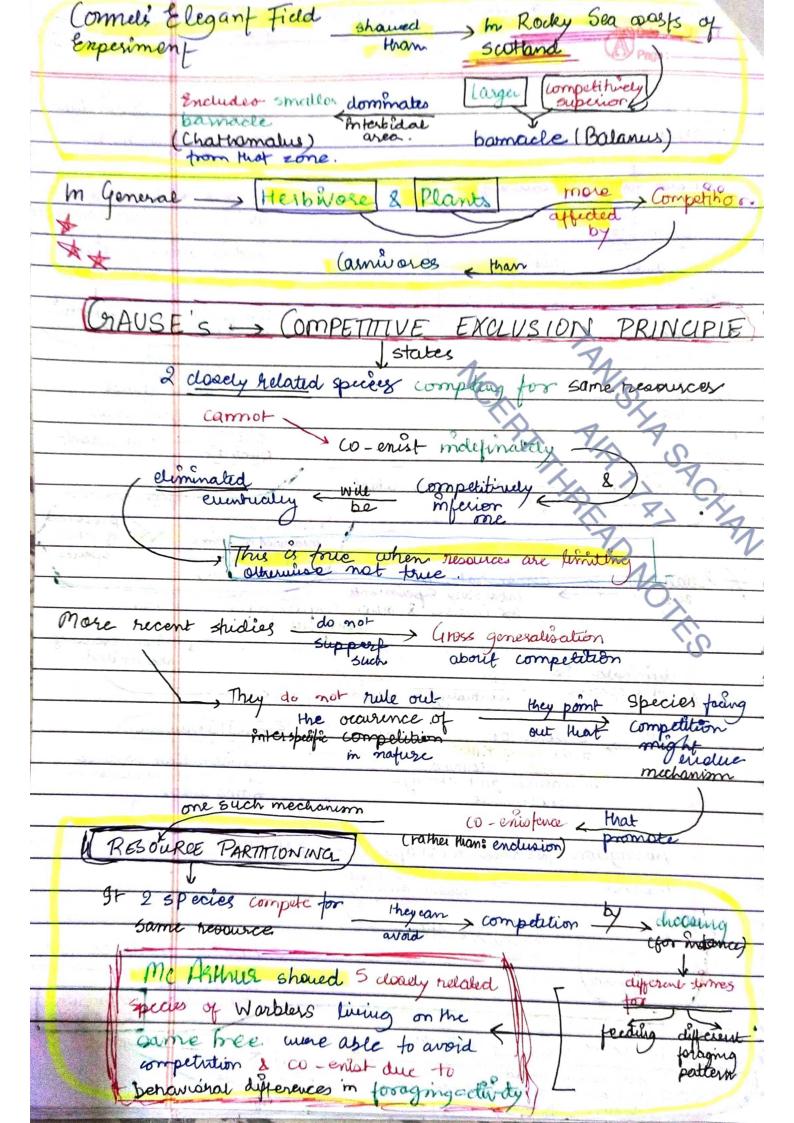




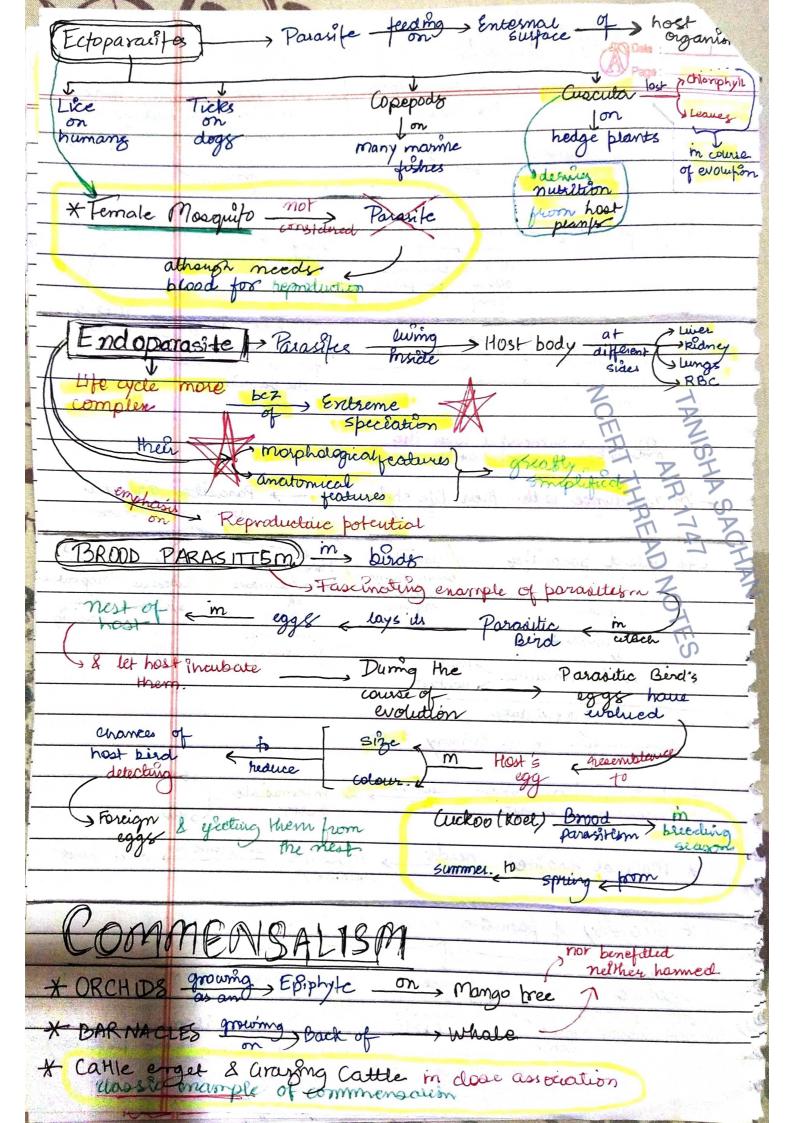


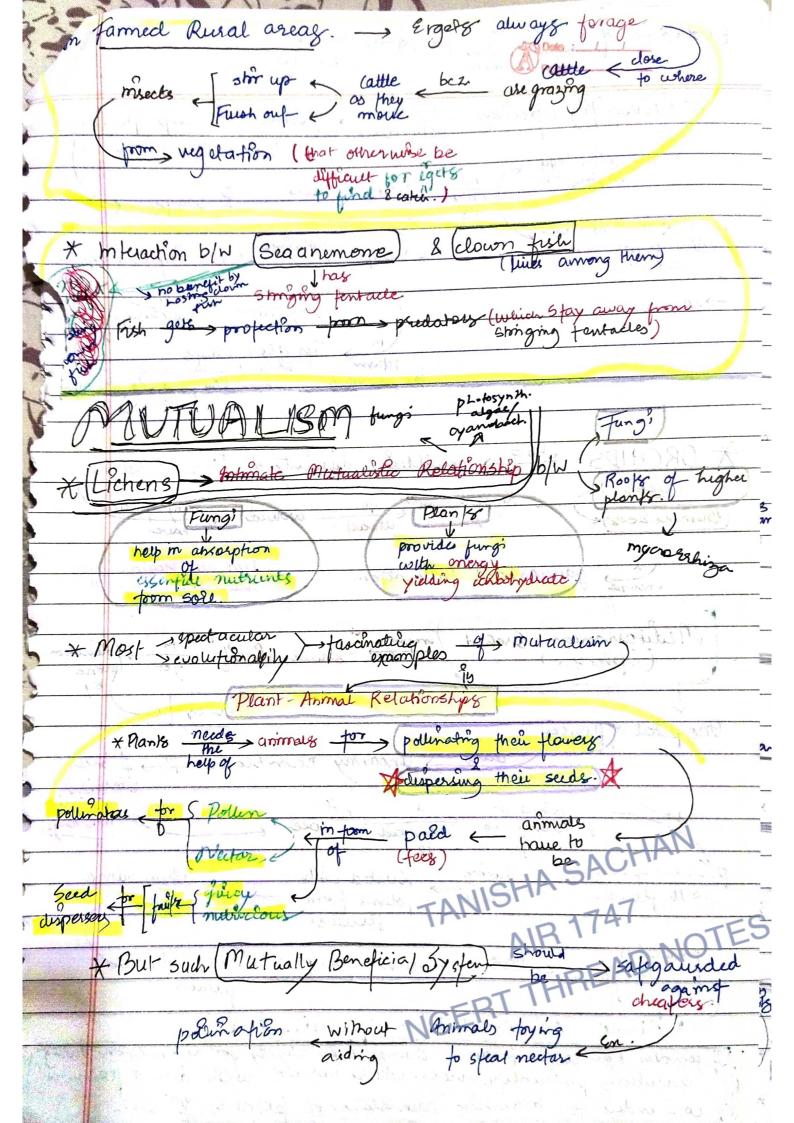






PARASITISED Parisitic made ensurer free lodging } it not surprising that higher plants vertebrates -> co-evolue * Many parasites - host specific They can paracitise only a single species of host. gh host evolver E that Parasite has to make for rejecting presis mig then mechanism to wuntract them. order to be same host species Parasites arolled * In accordance with their life style special adaptation. life cycle of parasifes Loss of LOSS OF Presence of digestive unnecessary adhesive organs organs complen suckers (to ching onto mioling 1 or 2 Intermediate , hosts to facilitate parasituation of its Parmany host. mail * Human Liver Fluke depends > 2 in termediate (Trematide parasite) hests >fish word > Masquito to spread to other hours. needs * Malarial Porasite. * Majority of paraste harms the host. Rander host valgerable Reduces reduce opulation densit Reprod surival Growth by making hast physically ability of Mullinger





Evolutions of Sporeinator of tighty with on with one another. * Given Fig Species can be - Partner Wasp species pollinated (& no other species) over laying not fruits _ uscs Durlong seeds polarotes, Fig Inflerescence within friests moderation suitable egg A SACHAN Fig offers waspe some of its developing seeds (as food for developing AIR 1747 NCERT THREAD NOTES pollination return show > bewildering diversity of Floral ORCHIDS - evolved < many of which Bumblebeer ensure garranteed pollunation. Not all orchids newards Mediterronean Orchid One petal of flower > uncanny resorrblance what it Cotour pigaenes attracted bendo copulares during Dusted with When same with flower Which polline from bee flowers polinates trus Pollen transfers with another Hours , News co- evolution operates: females bee colour parenne change even slightly for any heason diving evolutions polimation success was be reduced where broken flowered maintain resemblance of petal to & bee. co - enduce to



	B 2 rage
	Do Tropical Rain forest.
*	Biome with minimum variation in Tropical Rain forest.
	Maximum variation in
	mean annual precipitation
	Imp. graph A graniand Tropical Rain Josef
•	Desert Temporate forest 1 2
	consperous forest
,	Aratic and affine fundra
	presipitation -> 7
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Ecology is concerned with 4 levels only population
1	communities
_	Blomes
V	Major Bromes of India Peliduous forest
*	Major Bromes of India Deciduous forest
	Sea cost
)	Post - Reprod. Post reprod.
*	Age pyramids -> Reprod. Reprod. Reproductive.
	Pre reprod. Pre-Reprod. Pre-reprod.
	Empanding Stable Declining
	Remember the order of pre-repr. & reprod. & post suprod. no
	of people in it
) X	Breed once a life time -> Pacific Salmon fish (NOT artic)
	Bamb 00 plant
¥	- Niche - distinct functional role in ecological system.
	ou ecological system.
X	Niche Overlap midicates sharing of one or more resources b/w two species
	b/w two species
	KEYSTONE SPECIES -> small proposition of total Biomass of commun
	Huge impact on community 's
) (X	Lichen are symbiotic organisation survival
	Mycommica Mutualism > Symbosis & mutualism
) *	Brood Parasitism is how parasitism
_ X	ma population, unrestricted Reproductive capacity - Biotic
	1 GOVILLOT

